Limited Subsurface Investigation

Sterling – Commerce Street
1432 – 1434 E. Commerce Street
&
323 Idaho Street
San Antonio, Texas 78205

Prepared for:

Jasmine Engineering, Inc.

115 East Travis, Suite 1020

San Antonio, Texas 78205

Prepared by:

Drash Consultants, LLC

San Antonio, Texas

January 5, 2017

Drash Project No. 116E1164.00

January 5, 2017

Ms. Jasmine Azima
Jasmine Engineering, Inc.
115 East Travis, Suite 1020
San Antonio, Texas 78205

T: 210.227.4788
E: JAzima@jasmineengineering.com

SUBJECT:
Limited Subsurface Investigation
Sterling – Commerce Street
1432 – 1434 East Commerce Street
& 323 Idaho Street
San Antonio, Texas 78205

Drash Project No.: 116E1164.00

Dear Ms. Azima:

Drash Consultants, LLC (Drash) is presenting the results from the Limited Subsurface Investigation (LSI) performed for the above referenced project. This report is intended for the sole use and benefit of Jasmine Engineering, Inc. and may not be relied upon by any other part without express permission of Drash Consultants, LLC.

BACKGROUND

Introduction

Drash conducted an investigation to assess potential impacts to subsurface media at the Sterling – Commerce Street property located at 1432 – 1434 East Commerce Street and 323 Idaho Street in San Antonio, Bexar County, Texas (Site). A Site Vicinity Map is provided in Appendix A. This report documents the results of the investigation conducted on December 16, 2016 in accordance with the agreement governing the nature and extent of the LSI. Conditions may exist which could not be identified as a result of this LSI.

Purpose

This LSI was intended to evaluate soil and perched groundwater (if present) conditions for possible impacts from chemicals of concern (COCs). Drash evaluated the Site in order to determine the related likelihood of a significant release of COCs due to current and/or historic activities at the Site and/or the Site vicinity as identified in a prior Phase I Environmental Site Assessment (ESA) dated February 7, 2013 issued by Pape-Dawson Engineers, Inc. (Pape-Dawson) as well as observations documented during a Forensic Building Study (FBS) dated March 10, 2014 issued by Raba Kistner Consultants, Inc. (Raba Kistner).

The following is a synopsis of the findings and observations indicated in the documents reviewed:

- The prior Phase I ESA identified the Midway Cleaners and Model Dyers and Cleaners facilities as Recognized Environmental Conditions (RECs) and possible sources of

Stoddard and chlorinated solvents which, due to the facilities location and distance relative to the Site, may have adversely impacted the soils and/or groundwater within the Site boundary. Additionally, the Phase I ESA identified the San Antonio Fire Station #3, Imperial Loan and Jewelry Company, Commerce Quick Stop, Manuel Paint & Body Shop, and West's Auto Repair Shop/HW Kreger Repair as RECs and possible petroleum hydrocarbon sources of potential impact to Site soils and groundwater (Pape-Dawson, 2013).

- During performance of the FBS four soil borings were installed in and adjacent to the 1432 E. Commerce Street structure to assess the soil properties. Two of the soil boring logs (B-2 and B-3) indicate possible hydrocarbon odors from approximately 5 ½ feet to 7 feet below the floor slab (Raba Kistner, 2014).

Based on review of the above referenced documents, Drash recommended a limited subsurface investigation to determine what impacts, if any, current and former Site activities and/or activities in the Site vicinity had on the soil and/or groundwater at the Site. The LSI is not intended to identify additional areas of concern, evaluate the potential for release of other COCs, to identify the full lateral and vertical extent of release, determine appropriate cleanup actions, or develop a detailed estimate of costs to correct concerns identified.

In addition, this LSI does not, nor is intended to meet the requirements of ASTM E1903-11, "Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process".

Health and Safety Plan

Drash developed a Health and Safety Plan that was specific to the property. The development of this plan is required by the Occupational Safety and Health Administration (OSHA) under Hazardous Waste Operations & Emergency Response 29 CFR 1910.120. The site Health and Safety Plan was designed to reduce the risk of physical or chemical exposures that may affect on-site workers in the proposed work area. The site Health and Safety Plan includes information about chemicals expected on the property, health and safety procedures for working on-site, and emergency response procedures. The Health and Safety Plan is on file at Drash's office.

Utility Locating

A utility inspection was performed at the Site at least 48 hours prior to the initiation of the subsurface investigation at the request of the subcontract driller, as required by Texas State law. This inspection consisted of the marking the underground utility locations by authorized utility locating personnel.

Permits

The City of San Antonio and Bexar County did not require drilling permits for borings or temporary monitoring wells.

SUBSURFACE INVESTIGATION

Soil Sampling

Soil samples from six on-site soil borings were collected continuously utilizing two-foot split barrel samplers or two to five-foot stainless steel macro core samplers equipped with dedicated disposable acetate sampling sleeves. A Site Boring Location Plan is provided in Appendix A. All soil samples were field screened using a photo-ionization detector (PID) calibrated to 100 parts per million (ppm) isobutylene. The following table summarizes the soil boring depths and locations.

Soil Boring	Total Depth (Feet)	Location
B-1	8.0	Interior soil boring located within the northwest central portion of the 1434 E. Commerce Street structure.
B-2	10.0	Interior soil boring located within the far north-eastern portion of the 1432 E. Commerce Street structure.
B-3	15.0	Exterior soil boring located east adjacent to the 1432 E. Commerce Street structure.
B-4	10.0	Exterior soil boring located north-northeast adjacent to the 323 Idaho Street former residential structure.
B-5	15.0	Exterior soil boring located south adjacent to the 1434 E. Commerce Street structure.
B-6	15.0	Exterior soil boring located on the southwest portion of the Site near Idaho Street.

Please note that soil borings B-1 and B-2 were terminated due to the limitations of the equipment utilized to obtain samples given the relatively confined operating spaces and the lithology encountered in the subsurface.

Soils encountered at the Site generally consisted of the following:

- Alternating silty clay and clay material with minor gravel and silt from the surface down approximately 5.5 feet to 8 feet.
- Mixed clast and chert gravelly clays and clayey gravels with some silt from approximately 5.5 to 8 feet below ground surface (bgs) to approximately 10 to 12.5 feet bgs.
- High plasticity (fat) and relatively firm clays below 10 to 12.5 feet bgs.

Soil samples were continuously collected from each boring. After collection, selected samples were placed in laboratory supplied containers appropriate for the media being sampled and the specified analyses based on field screening results, depth and lithology, and/or visual evidence of impact. Immediately after collection, the samples were labeled and stored on ice in a cooler. The samples were delivered to the analytical laboratory, Alamo Analytical Laboratories, Ltd. in San Antonio, Texas.

Groundwater Sampling

Although the lithology encountered at the Site did not suggest the presence of perched groundwater, a one-inch temporary well was installed in boring B-3 and remained in place during the LSI activities. No perched groundwater was detected in the temporary monitoring well or any of the soil borings installed at the Site. The temporary well was constructed of one-inch diameter, schedule 40 poly-vinyl chloride (PVC) well screen and riser pipe, and was abandoned in accordance with Texas regulations (TAC, Title 16, Chapter 76.104) upon completion of field activities.

LABORATORY ANALYTICAL RESULTS

Laboratory Analytical Methods

The soil samples were transported under chain of custody to Alamo Analytical Laboratories, Ltd., a laboratory certified by the Texas Commission on Environmental Quality (TCEQ) and accredited by the National Environmental Laboratory Accreditation Conference (NELAC). Select soil samples were analyzed for total petroleum hydrocarbons (TPH) via TCEQ method TX 1005, Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Methyl tertiary-butyl ether (MTBE) and volatile organic compounds (VOCs) via EPA method 8260B (collected via EPA method 5035A), and Resource Conservation and Recovery Act (RCRA) 8 Metals via EPA methods 6010B and 7471A.

Summary of Data

The TCEQ has developed the TRRP for regulating the cleanup and management of hazardous wastes and COCs which have been released into the environment at affected properties, from regulated facilities, as well as closures of certain waste management facility components (e.g., tanks, container storage areas, surface impoundments). TRRP establishes requirements to investigate releases and evaluate whether an affected property or facility closure poses an unacceptable risk to humans, air, groundwater, surface soils, subsurface soils and/or aquatic environments.

The TRRP rule establishes a tiered approached for the development of action levels referred to as Tier 1, 2, or 3 PCLs. The default values are the Tier 1 PCLs, which are normally the most stringent (lowest) action levels. Drash reviewed the soil data against the Tier 1 Residential Levels for $^{GW}Soil_{Ing}$ and $^{Total}Soil_{Comb}$ PCLs. Regarding metals in soil, the PCL is the lower of the Tier 1 Residential Levels or the Texas-Specific Soil Background (TSB) concentrations, whichever is higher. In many cases, the PCL for metals in soil are some combination of the TRRP Tier 1 Residential Levels and the TSBs in the absence of site-specific background concentrations.

Based on Drash's review of the analytical results, only one specimen exceeded the TRRP Tier 1 Residential PCLs. Soil sample B-6 (12.5 – 15') returned a slightly elevated result for Lead of 15.8 milligrams per kilogram (mg/kg) which exceeds the Tier 1 Residential PCL (TSB) of 15.0 mg/kg.

However, the TSBs represent median background concentrations for the entire state of Texas, and it is Drash's opinion that the presence of Lead is from naturally occurring sources.

However, the hydrocarbons evidenced at this Site are **not** from naturally occurring sources. Hydrocarbon impacts were observed in soil borings B-2 (5 - 7') and B-3 (7.5 – 8.5'). While it is evident that the site has been impacted, the analytical results are below the TRRP Tier 1 Residential PCLs. This is most likely due to natural attenuation over time. It is more likely than not that the hydrocarbon impacts originated from off Site sources.

CONCLUSIONS

The following conclusions are based on the results of a LSI performed at the Sterling – Commerce Street property located at 1432 – 1434 E. Commerce Street and 323 Idaho Street in San Antonio, Bexar County, Texas. This investigation was intended to assess RECs identified in a Phase I ESA report completed by Pape-Dawson dated February 7, 2013 and observations made during a FBS conducted by Raba-Kistner in March 2014. The LSI was not intended to satisfy the level of inquiry that may be necessary to support remedial solutions or migration pathways related to a release from the RECs. For this reason, additional sampling may be required to provide sufficient data to support remedial solutions and provide closure of environmental pathways, if requested.

- According to Drash's review of the laboratory analytical results, only one specimen exceeded the TRRP Tier 1 Residential PCLs; soil sample B-6 (12.5 – 15'). This sample returned a slightly elevated result for Lead and **it is Drash's opinion that this result is naturally occurring.**
- The analytical results indicate that the constituents of concern are below the TRRP Tier 1 Residential PCLs, which preclude any regulatory considerations. However, it is apparent that the Site has been impacted by hydrocarbons based on visual and olfactory evidence. Even though the hydrocarbon levels are low, which is most likely the result of attenuation over time, the hydrocarbon odors are significant.

  It is more likely than not that these impacted soils will be encountered during earthwork construction at the Site for foundations and buried utilities. Normal disposition of these soils is not advised due to the hydrocarbon odors and the potential for encountering more impacted zones during construction. **It is Drash's opinion that the impacted soils be removed from the site.**
- These impacted soils can only be disposed at an approved landfill. This soil, before disposal, will have to be properly characterized (sampled). Based on characterization results various options may be available for disposal.

On the basis of Drash's review of the analytical data and the limitations governing this investigation, **Drash recommends no further environmental investigation or study is needed at this time.**

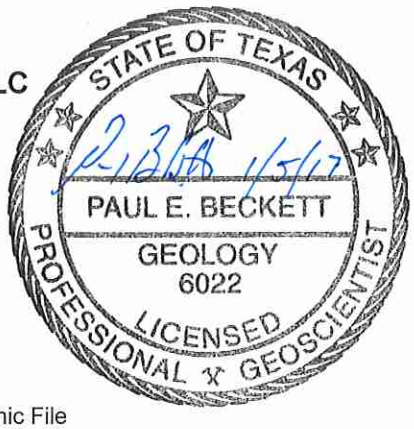
Please note that no environmental assessment can absolutely preclude the presence of hazardous materials on a Site. Future changes in environmental conditions and Site

characteristics/usage may occur with the passage of time, in which case the conclusions in this report may require re-evaluation.

This report will assist the client and the client's legal counsel in evaluating and allocating the environmental risks that are always present with any real estate transaction or development. However, it is the responsibility of the client and the client's legal counsel to determine, based on the client's experience, whether additional information is required in order to meet the investigative burdens placed on real estate owners by state and federal agencies.

Thank you for selecting Drash to provide the environmental services for this phase of the project. We appreciate the opportunity to work with you, and we look forward to working with you on future projects. If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Respectfully Submitted,
Drash Consultants, LLC



Paul E. Beckett, P.G.
Senior Project Geologist

Tomas Hernandez, Jr., P.G.
Environmental Services Group
Department Manager

PEB/TH/set – 116E1164.00

cc: Addressee: (1) Electronic File

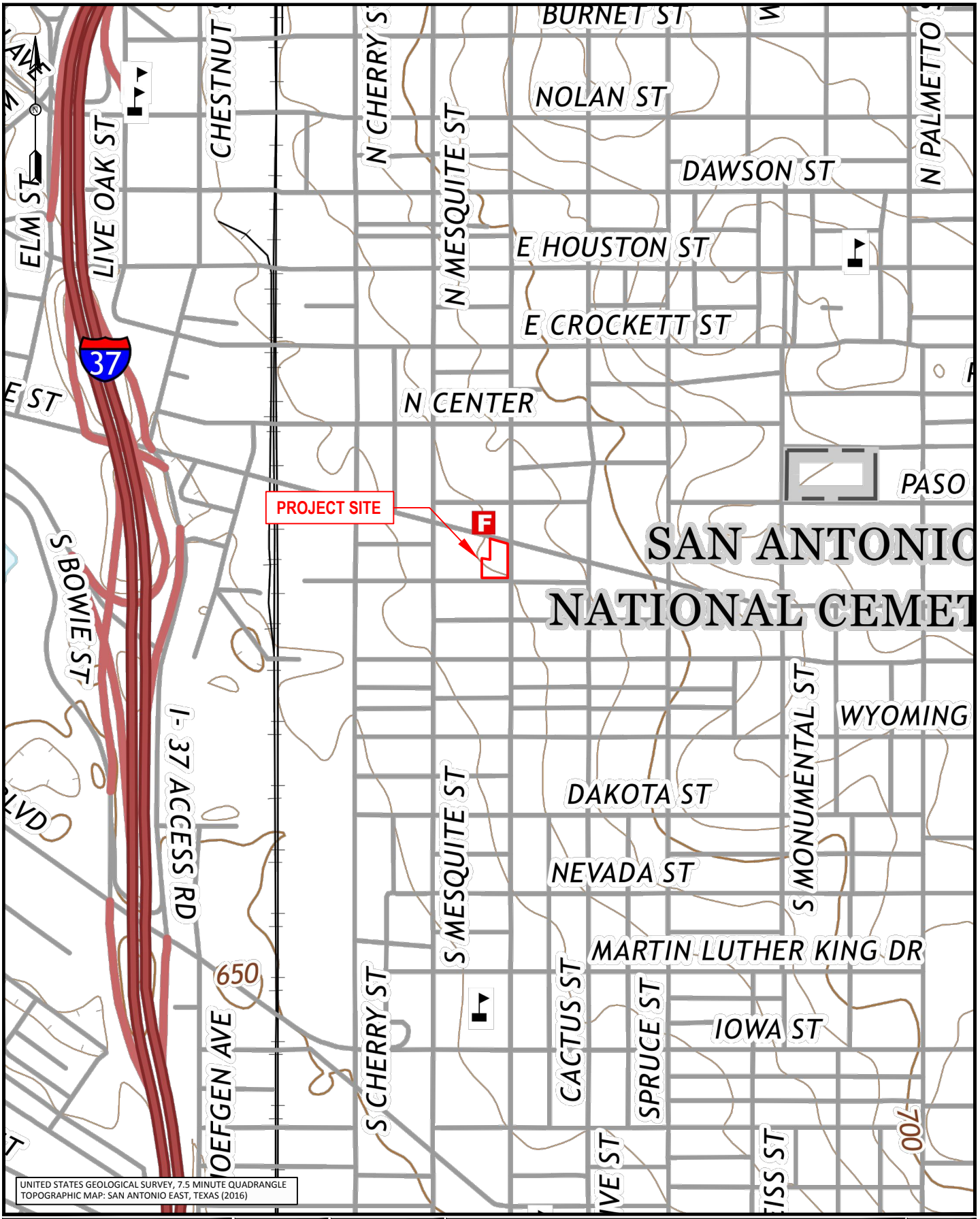
Appendix A – General Site Information
Appendix B – Boring Logs
Appendix C – Laboratory Analytical Report

APPENDIX A

GENERAL SITE INFORMATION

Site Vicinity Map

Site Boring Location Plan



Drash CONSULTANTS
1045 Central Parkway North, Suite 103 • San Antonio, Texas 78232
Office: 210.340.5004 • Facsimile: 210.340.5009

Project Mngr:	PB
Drawn By:	JM
Checked By:	PB
Reviewed By:	TH
Project No.	116E1164.00
Scale:	NOT TO SCALE
Date:	01-04-2017

SITE VICINITY MAP

STERLING - COMMERCE STREET
1432-1434 EAST COMMERCE STREET
SAN ANTONIO, BEXAR COUNTY, TEXAS 78205

EXHIBIT

A-1

Drash CONSULTANTS
1045 Central Parkway North, Suite 103 • San Antonio, Texas 78232
Office: 210.340.5004 • Facsimile: 210.340.5009

Project Mngr:	PB
Drawn By:	JM
Checked By:	PB
Reviewed By:	TH
Project No.	116E1164.00
Scale:	NOT TO SCALE
Date:	01-04-2017

SITE BORING LOCATION PLAN

STERLING - COMMERCE STREET
1432-1434 EAST COMMERCE STREET
SAN ANTONIO, BEXAR COUNTY, TEXAS 78205

EXHIBIT
A-2

APPENDIX B

BORING LOGS

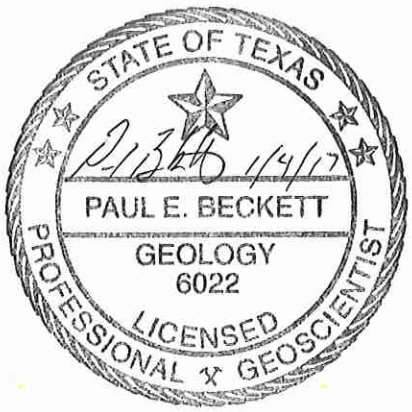
Drash Consultants, LLC
1045 Central Parkway North, Suite 103
San Antonio, Texas
T: (210) 340-5004 F: (210) 340-5009

BORING NUMBER B-1

CLIENT Jasmine Engineering
PROJECT NAME Sterling - Commerce LSI
PROJECT NUMBER 116E1164
PROJECT LOCATION 1432-1434 E. Commerce Street, San Antonio, TX
DATE STARTED 12/16/17 **COMPLETED** 12/16/17
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Vortex
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LOGGED BY JM **CHECKED BY** PEB
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	DRILLING METHOD	RECOVERY (%)	SAMPLE ID	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0							
	P PROBE	83		PID = 16.4		(CL-ML) 10YR 3/1 very dark gray silty clay; soft, dry.	
					0.5	(CH) 10YR 3/1 very dark gray high plasticity clay; medium stiff and dry grading to soft and moist with trace silt.	
2.5	P PROBE	75		PID = 14			
5.0	P PROBE	100		PID = 10.7		- Transitions to 10YR 5/2 grayish-brown; soft and moist.	
					5.5	(GC) 10YR 5/2 grayish-brown clayey gravel with abundant chert; moist, increasing clay with depth. Larger gravels, less clay and very moist at 8 feet.	
7.5	P PROBE	100	B-1 (6-8')	PID = 14			
					8.0		

Bottom of borehole at 8.0 feet.



Drash Consultants, LLC
1045 Central Parkway North, Suite 103
San Antonio, Texas
T: (210) 340-5004 F: (210) 340-5009

BORING NUMBER B-2

CLIENT Jasmine Engineering
PROJECT NAME Sterling - Commerce LSI
PROJECT NUMBER 116E1164
PROJECT LOCATION 1432-1434 E. Commerce Street, San Antonio, TX
DATE STARTED 12/16/17 **COMPLETED** 12/16/17
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Vortex
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LOGGED BY JM **CHECKED BY** PEB
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	DRILLING METHOD	RECOVERY (%)	SAMPLE ID	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0							
	P PROBE	17		PID = 11.5		(CH) 10YR 3/1 very dark gray high plasticity clay; soft and slightly moist with trace gravel	
2.5	P PROBE	17		PID = 45			
5.0	P PROBE	100	B-2 (4-6')	PID = 287.9		- Transitions to 10YR 5/1 gray; soft and slightly moist, slight hydrocarbon odor, trace calcareous nodules.	
	P PROBE	300		PID = 163.6		- Transitions to 2.5Y 5/3 light olive brown; trace calcareous deposits and small gravels, stronger hydrocarbon odor from 7 to 8'.	
7.5							
	P PROBE	100	B-2 (8-10')	PID = 451.7			
10.0						(GC) 2.5Y 5/3 light olive brown cherty gravel and clayey gravel; moist, strong hydrocarbon odor.	

0.3 Concrete slab
9.8
10.0
Bottom of borehole at 10.0 feet.

STATE OF TEXAS
PAUL E. BECKETT
GEOLOGY
6022
LICENSED
PROFESSIONAL GEOSCIENTIST
11/4/17

Drash Consultants, LLC
1045 Central Parkway North, Suite 103
San Antonio, Texas
T: (210) 340-5004 F: (210) 340-5009

BORING NUMBER B-3

CLIENT Jasmine Engineering
PROJECT NAME Sterling - Commerce LSI
PROJECT NUMBER 116E1164
PROJECT LOCATION 1432-1434 E. Commerce Street, San Antonio, TX
DATE STARTED 12/16/17 **COMPLETED** 12/16/17
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Vortex
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LOGGED BY JM **CHECKED BY** PEB
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	DRILLING METHOD	RECOVERY (%)	SAMPLE ID	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0							Casing Type: 1" Sch 40 PVC
5	P PROBE	60	B-3 (2.5-5')	PID = 14.3 PID = 397		(CH) 10YR 3/1 very dark gray high plasticity clay; soft and slightly moist, trace calcareous nodules and root hairs.	Concrete seal 1" Sch 40 PVC Riser
10	P PROBE	100	B-3 (7.5-10')	PID = 198.2 PID = 590.1		- Transitions to 2.5Y 5/3 light olive brown; trace silt. - Black/weathered hydrocarbon impacted soil layer from 7.5 to 8'.	Bentonite seal
15	P PROBE	100		PID = 504.9 PID = 20.4		8.5 (GC) 2.5Y 5/3 light olive brown clayey gravel (chert); dry, strong hydrocarbon odor. 12.5 (CH) 2.5Y 6/4 light yellowish-brown; medium stiff and slightly moist, calcareous deposits and trace silt pockets. 15.0	12/20 Sand Filter Pack 1" Sch 40 PVC 0.010 Slotted Screen

Bottom of borehole at 15.0 feet.

STATE OF TEXAS
PAUL E. BECKETT
GEOLOGY
6022
LICENSED
PROFESSIONAL GEOSCIENTIST

Drash Consultants, LLC
1045 Central Parkway North, Suite 103
San Antonio, Texas
T: (210) 340-5004 F: (210) 340-5009

BORING NUMBER B-4

CLIENT Jasmine Engineering
PROJECT NAME Sterling - Commerce LSI
PROJECT NUMBER 116E1164
PROJECT LOCATION 1432-1434 E. Commerce Street, San Antonio, TX
DATE STARTED 12/16/17 **COMPLETED** 12/16/17
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Vortex
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LOGGED BY JM **CHECKED BY** PEB
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	DRILLING METHOD	RECOVERY (%)	SAMPLE ID	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						0.2 Asphalt	
						1.0 Light tan and brown limestone base and clayey sand fill material.	
				PID = 55.6		(CH) 10YR 3/1 very dark gray high plasticity clay; soft and slightly moist.	
	P PROBE	40					
				PID = 31.3			
5							
				PID = 58.6		- Transitions to 10YR 6/4 light yellowish-brown; soft and slightly moist	
	P PROBE	100	B-4 (5-7.5')				
						8.5	
				PID = 38.7		(GC) 2.5Y 5/3 light olive brown clayey gravel (chert); moist with some ferrous staining.	
10						10.0	
						(CH) 5Y 6/2 light olive gray and 2.5Y 6/4 light yellowish-brown high plasticity clay; trace silt, medium stiff and slightly moist.	
				PID = 18.1			
	P PROBE	100	B-4 (12.5-15')				
				PID = 74.6			
15						15.0	
						Bottom of borehole at 15.0 feet.	

STATE OF TEXAS
PAUL E. BECKETT
GEOLOGY
6022
LICENSED PROFESSIONAL GEOSCIENTIST
1/4/18

Drash Consultants, LLC
1045 Central Parkway North, Suite 103
San Antonio, Texas
T: (210) 340-5004 F: (210) 340-5009

BORING NUMBER B-5

CLIENT Jasmine Engineering
PROJECT NAME Sterling - Commerce LSI
PROJECT NUMBER 116E1164
PROJECT LOCATION 1432-1434 E. Commerce Street, San Antonio, TX
DATE STARTED 12/16/17 **COMPLETED** 12/16/17
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Vortex
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LOGGED BY JM **CHECKED BY** PEB
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	DRILLING METHOD	RECOVERY (%)	SAMPLE ID	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0							
	P PROBE	5				Light tan and brown limestone gravel, clay and sand fill material	
5						5.0	
	P PROBE	100	B-5 (7.5-10')	PID = 15		(CH) 10YR 4/1 dark gray high plasticity clay; soft and slightly moist.	
				PID = 24.5		- Transitions to 2.5Y 6/4 light yellowish-brown; trace calcite deposits, grading soft to medium stiff, slightly moist.	
10							
	P PROBE	100	B-5 (12.5-15')	PID = 24.9		- increasing calcite deposits with depth.	
				PID = 191.2		14.0	
15						(CH) 5Y 6/2 light olive gray and 2.5Y 6/4 light yellowish-brown high plasticity clay; medium stiff, slightly moist.	
						15.0	
						Bottom of borehole at 15.0 feet.	

STATE OF TEXAS
PAUL E. BECKETT
GEOLOGY
6022
LICENSED
PROFESSIONAL GEOSCIENTIST
11/4/17

Drash Consultants, LLC
1045 Central Parkway North, Suite 103
San Antonio, Texas
T: (210) 340-5004 F: (210) 340-5009

BORING NUMBER B-6

CLIENT Jasmine Engineering
PROJECT NAME Sterling - Commerce LSI
PROJECT NUMBER 116E1164
PROJECT LOCATION 1432-1434 E. Commerce Street, San Antonio, TX
DATE STARTED 12/16/17 **COMPLETED** 12/16/17
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Vortex
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING ---
LOGGED BY JM **CHECKED BY** PEB
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	DRILLING METHOD	RECOVERY (%)	SAMPLE ID	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0							
	P PROBE	53		PID = 34.8		(CH) 10YR 3/1 very dark gray high plasticity clay; soft and slightly moist; root hairs throughout, trace gravels.	
				PID = 36.3			
5							
	P PROBE	100		PID = 116		- Transitions to 2.5Y 6/4 light yellowish-brown; grades soft to medium stiff, slightly moist, calcite deposits throughout and trace cherty gravels from 9 to 10'.	
				PID = 136.8			
10							
	P PROBE	100	B-6 (12.5-15')	PID = 185.2		- Transitions to 5Y 6/2 light olive gray and 2.5Y 6/4 light yellowish-brown; medium stiff and slightly moist, trace calcite.	
				PID = 270.1			
15					15.0	Bottom of borehole at 15.0 feet.	

STATE OF TEXAS
PAUL E. BECKETT
GEOLOGY
6022
LICENSED
PROFESSIONAL GEOSCIENTIST
11/4/17

APPENDIX C

LABORATORY ANALYTICAL REPORT

ALAMO ANALYTICAL LABORATORIES, LTD.
Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

REPORT NARRATIVE 12/22/2016

Paul Beckett
Drash Consultants, LLC
1045 Central Parkway North, Suite 103
San Antonio , Texas - 78232
TEL: (210) 340-5004 Email: pbeckett@drashconsultants.com
FAX:

RE: 116G1164 Sterling - Commerce LSI

Dear Paul Beckett: Order No.: 1612077

Enclosed please find the analytical report for the sample/s received on 12/17/2016.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.
DATA: Sample were prepared, analyzed and reported using the methods outlined in the following references: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
QA/QC: All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives, except as noted in the report with data qualifiers.

SUBCONTRACTED: No analyses were subcontracted.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D

Laboratory Director

Report of Laboratory Analysis

Analytical Results Report

CLIENT: Drash Consultants, LLC
Lab Order 1612077
Project: 116G1164 Sterling - Commerce LSI

Collection Date: 12/16/2016 10:36:00 AM
Matrix: SOIL
Lab ID: 1612077-01

Client Sample ID: B - 1 (6 - 8')

Analyses	Test Code	Result	Limit	Units	DF	Date Analyzed
TestName: MERCURY, TOTAL						**Analyst: JOL**
Mercury	HG_R_S	< 0.04	0.04	mg/Kg-dry	1	12/21/2016
TestName: PERCENT MOISTURE						**Analyst: SM**
Percent Moisture	PMOIST	11.2	0.1	wt%	1	12/20/2016
TestName: METALS-RCRA, Total						**Analyst: JOL**
Arsenic	RCRA7_S	< 2.5	2.5	mg/Kg-dry	1	12/22/2016
Barium	RCRA7_S	162	1	mg/Kg-dry	1	12/22/2016
Cadmium	RCRA7_S	< 0.5	0.5	mg/Kg-dry	1	12/22/2016
Chromium	RCRA7_S	16.6	0.5	mg/Kg-dry	1	12/22/2016
Lead	RCRA7_S	13.7	1.5	mg/Kg-dry	1	12/22/2016
Selenium	RCRA7_S	< 2	2	mg/Kg-dry	1	12/22/2016
Silver	RCRA7_S	< 0.78	0.78	mg/Kg-dry	1	12/22/2016
TestName: TOTAL PETROLEUM HYDROCAR						**Analyst: SLF**
Hydrocarbons, C6-C12	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C12-C28	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C28-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, C6-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016

Surrogate Recoveries

Test Code	Analyte	Recovery	Control Limits
TPH1005_S	1-Chlorooctadecane	79%	70—130
TPH1005_S	1-Chlorooctane	83%	70—130

For Surrogates: 0 = Dil. Out

J - Analyte detected below quanititation limits

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Analytical Results Report

CLIENT: Drash Consultants, LLC
Lab Order 1612077
Project: 116G1164 Sterling - Commerce LSI

Collection Date: 12/16/2016 11:48:00 AM
Matrix: SOIL
Lab ID: 1612077-03

Client Sample ID: B - 2 (8 - 10')

Analyses	Test Code	Result	Limit	Units	DF	Date Analyzed
TestName: MERCURY, TOTAL						**Analyst: JOL**
Mercury	HG_R_S	< 0.04	0.04	mg/Kg-dry	1	12/21/2016
TestName: PERCENT MOISTURE						**Analyst: SM**
Percent Moisture	PMOIST	19.4	0.1	wt%	1	12/20/2016
TestName: METALS-RCRA, Total						**Analyst: JOL**
Arsenic	RCRA7_S	< 2.5	2.5	mg/Kg-dry	1	12/22/2016
Barium	RCRA7_S	182	1	mg/Kg-dry	1	12/22/2016
Cadmium	RCRA7_S	< 0.5	0.5	mg/Kg-dry	1	12/22/2016
Chromium	RCRA7_S	10.9	0.5	mg/Kg-dry	1	12/22/2016
Lead	RCRA7_S	5.19	1.5	mg/Kg-dry	1	12/22/2016
Selenium	RCRA7_S	< 2	2	mg/Kg-dry	1	12/22/2016
Silver	RCRA7_S	< 0.78	0.78	mg/Kg-dry	1	12/22/2016
TestName: TOTAL PETROLEUM HYDROCAR						**Analyst: SLF**
Hydrocarbons, C6-C12	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C12-C28	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C28-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, C6-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016

Surrogate Recoveries

Test Code	Analyte	Recovery	Control Limits
TPH1005_S	1-Chlorooctadecane	100%	70—130
TPH1005_S	1-Chlorooctane	90%	70—130

For Surrogates: 0 = Dil. Out

J - Analyte detected below quanititation limits

Approved by: [signature]

Report of Laboratory Analysis

Analytical Results Report

CLIENT: Drash Consultants, LLC
Lab Order 1612077
Project: 116G1164 Sterling - Commerce LSI

Collection Date: 12/16/2016 2:36:00 PM
Matrix: SOIL
Lab ID: 1612077-05

Client Sample ID: B - 3 (7.5 - 10')

Analyses	Test Code	Result	Limit	Units	DF	Date Analyzed
TestName: MERCURY, TOTAL						**Analyst: JOL**
Mercury	HG_R_S	< 0.04	0.04	mg/Kg-dry	1	12/21/2016
TestName: PERCENT MOISTURE						**Analyst: SM**
Percent Moisture	PMOIST	24.9	0.1	wt%	1	12/20/2016
TestName: METALS-RCRA, Total						**Analyst: JOL**
Arsenic	RCRA7_S	< 2.5	2.5	mg/Kg-dry	1	12/22/2016
Barium	RCRA7_S	252	1	mg/Kg-dry	1	12/22/2016
Cadmium	RCRA7_S	< 0.5	0.5	mg/Kg-dry	1	12/22/2016
Chromium	RCRA7_S	19.3	0.5	mg/Kg-dry	1	12/22/2016
Lead	RCRA7_S	14.9	1.5	mg/Kg-dry	1	12/22/2016
Selenium	RCRA7_S	< 2	2	mg/Kg-dry	1	12/22/2016
Silver	RCRA7_S	< 0.78	0.78	mg/Kg-dry	1	12/22/2016
TestName: TOTAL PETROLEUM HYDROCAR						**Analyst: SLF**
Hydrocarbons, C6-C12	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C12-C28	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C28-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, C6-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016

Surrogate Recoveries

Test Code	Analyte	Recovery	Control Limits
TPH1005_S	1-Chlorooctadecane	77%	70—130
TPH1005_S	1-Chlorooctane	76%	70—130

For Surrogates: 0 = Dil. Out

J - Analyte detected below quanititation limits

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Analytical Results Report

CLIENT: Drash Consultants, LLC
Lab Order 1612077
Project: 116G1164 Sterling - Commerce LSI

Collection Date: 12/16/2016 3:06:00 PM
Matrix: SOIL
Lab ID: 1612077-07

Client Sample ID: B - 4 (12.5 - 15')

Analyses	Test Code	Result	Limit	Units	DF	Date Analyzed
TestName: MERCURY, TOTAL						**Analyst: JOL**
Mercury	HG_R_S	< 0.04	0.04	mg/Kg-dry	1	12/21/2016
TestName: PERCENT MOISTURE						**Analyst: SM**
Percent Moisture	PMOIST	18.9	0.1	wt%	1	12/20/2016
TestName: METALS-RCRA, Total						**Analyst: JOL**
Arsenic	RCRA7_S	< 2.5	2.5	mg/Kg-dry	1	12/22/2016
Barium	RCRA7_S	40.5	1	mg/Kg-dry	1	12/22/2016
Cadmium	RCRA7_S	< 0.5	0.5	mg/Kg-dry	1	12/22/2016
Chromium	RCRA7_S	29.6	0.5	mg/Kg-dry	1	12/22/2016
Lead	RCRA7_S	8.26	1.5	mg/Kg-dry	1	12/22/2016
Selenium	RCRA7_S	< 2	2	mg/Kg-dry	1	12/22/2016
Silver	RCRA7_S	< 0.78	0.78	mg/Kg-dry	1	12/22/2016
TestName: TOTAL PETROLEUM HYDROCAR						**Analyst: SLF**
Hydrocarbons, C6-C12	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C12-C28	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C28-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, C6-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016

Surrogate Recoveries

Test Code	Analyte	Recovery	Control Limits
TPH1005_S	1-Chlorooctadecane	75%	70—130
TPH1005_S	1-Chlorooctane	78%	70—130

For Surrogates: 0 = Dil. Out

J - Analyte detected below quanititation limits

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Analytical Results Report

CLIENT: Drash Consultants, LLC
Lab Order 1612077
Project: 116G1164 Sterling - Commerce LSI

Collection Date: 12/16/2016 3:23:00 PM
Matrix: SOIL
Lab ID: 1612077-08

Client Sample ID: B - 5 (5 - 7.5')

Analyses	Test Code	Result	Limit	Units	DF	Date Analyzed
TestName: MERCURY, TOTAL						**Analyst: JOL**
Mercury	HG_R_S	< 0.04	0.04	mg/Kg-dry	1	12/21/2016
TestName: PERCENT MOISTURE						**Analyst: SM**
Percent Moisture	PMOIST	24.5	0.1	wt%	1	12/20/2016
TestName: METALS-RCRA, Total						**Analyst: JOL**
Arsenic	RCRA7_S	< 2.5	2.5	mg/Kg-dry	1	12/22/2016
Barium	RCRA7_S	355	1	mg/Kg-dry	1	12/22/2016
Cadmium	RCRA7_S	< 0.5	0.5	mg/Kg-dry	1	12/22/2016
Chromium	RCRA7_S	23.7	0.5	mg/Kg-dry	1	12/22/2016
Lead	RCRA7_S	13.3	1.5	mg/Kg-dry	1	12/22/2016
Selenium	RCRA7_S	< 2	2	mg/Kg-dry	1	12/22/2016
Silver	RCRA7_S	< 0.78	0.78	mg/Kg-dry	1	12/22/2016
TestName: TOTAL PETROLEUM HYDROCAR						**Analyst: SLF**
Hydrocarbons, C6-C12	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C12-C28	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C28-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, C6-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016

Surrogate Recoveries

Test Code	Analyte	Recovery	Control Limits
TPH1005_S	1-Chlorooctadecane	74%	70—130
TPH1005_S	1-Chlorooctane	72%	70—130

For Surrogates: 0 = Dil. Out

J - Analyte detected below quanititation limits

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Analytical Results Report

CLIENT: Drash Consultants, LLC
Lab Order 1612077
Project: 116G1164 Sterling - Commerce LSI

Collection Date: 12/16/2016 4:03:00 PM
Matrix: SOIL
Lab ID: 1612077-10

Client Sample ID: B - 6 (12.5 - 15')

Analyses	Test Code	Result	Limit	Units	DF	Date Analyzed
TestName: MERCURY, TOTAL						**Analyst: JOL**
Mercury	HG_R_S	< 0.04	0.04	mg/Kg-dry	1	12/21/2016
TestName: PERCENT MOISTURE						**Analyst: SM**
Percent Moisture	PMOIST	25.7	0.1	wt%	1	12/20/2016
TestName: METALS-RCRA, Total						**Analyst: JOL**
Arsenic	RCRA7_S	< 2.5	2.5	mg/Kg-dry	1	12/22/2016
Barium	RCRA7_S	66.8	1	mg/Kg-dry	1	12/22/2016
Cadmium	RCRA7_S	< 0.5	0.5	mg/Kg-dry	1	12/22/2016
Chromium	RCRA7_S	17.9	0.5	mg/Kg-dry	1	12/22/2016
Lead	RCRA7_S	15.8	1.5	mg/Kg-dry	1	12/22/2016
Selenium	RCRA7_S	< 2	2	mg/Kg-dry	1	12/22/2016
Silver	RCRA7_S	< 0.78	0.78	mg/Kg-dry	1	12/22/2016
TestName: TOTAL PETROLEUM HYDROCAR						**Analyst: SLF**
Hydrocarbons, C6-C12	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C12-C28	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, >C28-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016
Hydrocarbons, C6-C35	TPH1005_S	< 50	50	mg/Kg	1	12/19/2016

Surrogate Recoveries

Test Code	Analyte	Recovery	Control Limits
TPH1005_S	1-Chlorooctadecane	81%	70—130
TPH1005_S	1-Chlorooctane	79%	70—130

For Surrogates: 0 = Dil. Out

J - Analyte detected below quanititation limits

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-02A
Analyst: SS

Client Sample ID B - 2 (4 - 6')

BTEX — SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
Benzene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Toluene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Ethylbenzene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Xylenes, Total	< 0.015	0.015	1	mg/Kg	21-Dec-16
Methyl tert-butyl ether	< 0.005	0.005	1	mg/Kg	21-Dec-16

Surrogate Recoveries

Analyte	Recovery	Control Limits
1,2-Dichloroethane-d4	89%	61—145
Toluene-d8	120%	54—163

For Surrogates: 0 = Dil. Out

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-04A
Analyst: SS

Client Sample ID B - 3 (2.5 - 5')

BTEX — SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
Benzene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Toluene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Ethylbenzene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Xylenes, Total	< 0.015	0.015	1	mg/Kg	21-Dec-16
Methyl tert-butyl ether	< 0.005	0.005	1	mg/Kg	21-Dec-16

Surrogate Recoveries

Analyte	Recovery	Control Limits
1,2-Dichloroethane-d4	87%	61—145
Toluene-d8	126%	54—163

For Surrogates: 0 = Dil. Out

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-06A
Analyst: SS

Client Sample ID B - 4 (5 - 7.5')

BTEX — SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
Benzene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Toluene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Ethylbenzene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Xylenes, Total	< 0.015	0.015	1	mg/Kg	21-Dec-16
Methyl tert-butyl ether	< 0.005	0.005	1	mg/Kg	21-Dec-16

Surrogate Recoveries

Analyte	Recovery	Control Limits
1,2-Dichloroethane-d4	92%	61—145
Toluene-d8	117%	54—163

For Surrogates: 0 = Dil. Out

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-09A
Analyst: SS

Client Sample ID B - 5 (12.5 - 15')

BTEX — SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
Benzene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Toluene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Ethylbenzene	< 0.005	0.005	1	mg/Kg	21-Dec-16
Xylenes, Total	< 0.015	0.015	1	mg/Kg	21-Dec-16
Methyl tert-butyl ether	< 0.005	0.005	1	mg/Kg	21-Dec-16

Surrogate Recoveries

Analyte	Recovery	Control Limits
1,2-Dichloroethane-d4	86%	61—145
Toluene-d8	121%	54—163

For Surrogates: 0 = Dil. Out

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-01A
Analyst: SS

Client Sample ID B - 1 (6 - 8')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,1-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromo-3-chloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromoethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,3,5-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,4-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
2,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
2-Butanone	< 10	10	1	ug/Kg	21-Dec-16
2-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
2-Hexanone	< 10	10	1	ug/Kg	21-Dec-16
4-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Isopropyltoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Methyl-2-pentanone	< 10	10	1	ug/Kg	21-Dec-16
Acetone	< 10	10	1	ug/Kg	21-Dec-16
Benzene	< 5	5	1	ug/Kg	21-Dec-16

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-01A
Analyst: SS

Client Sample ID B - 1 (6 - 8')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
Bromobenzene	< 5	5	1	ug/Kg	21-Dec-16
Bromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromodichloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromoform	< 5	5	1	ug/Kg	21-Dec-16
Bromomethane	< 5	5	1	ug/Kg	21-Dec-16
Carbon disulfide	< 5	5	1	ug/Kg	21-Dec-16
Carbon tetrachloride	< 5	5	1	ug/Kg	21-Dec-16
Chlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
Chloroethane	< 5	5	1	ug/Kg	21-Dec-16
Chloroform	< 5	5	1	ug/Kg	21-Dec-16
Chloromethane	< 5	5	1	ug/Kg	21-Dec-16
cis-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
cis-1,3-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
Dibromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Dibromomethane	< 5	5	1	ug/Kg	21-Dec-16
Dichlorodifluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Ethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Hexachlorobutadiene	< 5	5	1	ug/Kg	21-Dec-16
Iodomethane	< 5	5	1	ug/Kg	21-Dec-16
Isopropylbenzene	< 5	5	1	ug/Kg	21-Dec-16
m,p-Xylenes	< 10	10	1	ug/Kg	21-Dec-16
Methyl tert-butyl ether	< 5	5	1	ug/Kg	21-Dec-16
Methylene chloride	< 5	5	1	ug/Kg	21-Dec-16
n-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
n-Propylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Naphthalene	< 15	15	1	ug/Kg	21-Dec-16
o-Xylene	< 5	5	1	ug/Kg	21-Dec-16
sec-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Styrene	< 5	5	1	ug/Kg	21-Dec-16

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-01A
Analyst: SS

Client Sample ID B - 1 (6 - 8')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
tert-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Tetrachloroethene	< 5	5	1	ug/Kg	21-Dec-16
Toluene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,3-Dichloropropene	< 10	10	1	ug/Kg	21-Dec-16
Trichloroethene	< 5	5	1	ug/Kg	21-Dec-16
Trichlorofluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Vinyl chloride	< 2	2	1	ug/Kg	21-Dec-16

Surrogate Recoveries

Analyte	Recovery	Control Limits
1,2-Dichloroethane-d4	88%	61—145
4-Bromofluorobenzene	102%	46—164
Dibromofluoromethane	83%	48—160
Toluene-d8	124%	54—163

For Surrogates: 0 = Dil. Out

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-03A
Analyst: SS

Client Sample ID B - 2 (8 - 10')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,1-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromo-3-chloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromoethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,3,5-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,4-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
2,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
2-Butanone	< 10	10	1	ug/Kg	21-Dec-16
2-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
2-Hexanone	< 10	10	1	ug/Kg	21-Dec-16
4-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Isopropyltoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Methyl-2-pentanone	< 10	10	1	ug/Kg	21-Dec-16
Acetone	< 10	10	1	ug/Kg	21-Dec-16
Benzene	< 5	5	1	ug/Kg	21-Dec-16

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-03A
Analyst: SS

Client Sample ID B - 2 (8 - 10')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
Bromobenzene	< 5	5	1	ug/Kg	21-Dec-16
Bromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromodichloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromoform	< 5	5	1	ug/Kg	21-Dec-16
Bromomethane	< 5	5	1	ug/Kg	21-Dec-16
Carbon disulfide	< 5	5	1	ug/Kg	21-Dec-16
Carbon tetrachloride	< 5	5	1	ug/Kg	21-Dec-16
Chlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
Chloroethane	< 5	5	1	ug/Kg	21-Dec-16
Chloroform	< 5	5	1	ug/Kg	21-Dec-16
Chloromethane	< 5	5	1	ug/Kg	21-Dec-16
cis-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
cis-1,3-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
Dibromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Dibromomethane	< 5	5	1	ug/Kg	21-Dec-16
Dichlorodifluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Ethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Hexachlorobutadiene	< 5	5	1	ug/Kg	21-Dec-16
Iodomethane	< 5	5	1	ug/Kg	21-Dec-16
Isopropylbenzene	5.4	5	1	ug/Kg	21-Dec-16
m,p-Xylenes	< 10	10	1	ug/Kg	21-Dec-16
Methyl tert-butyl ether	< 5	5	1	ug/Kg	21-Dec-16
Methylene chloride	< 5	5	1	ug/Kg	21-Dec-16
n-Butylbenzene	5.4	5	1	ug/Kg	21-Dec-16
n-Propylbenzene	11.6	5	1	ug/Kg	21-Dec-16
Naphthalene	< 15	15	1	ug/Kg	21-Dec-16
o-Xylene	< 5	5	1	ug/Kg	21-Dec-16
sec-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Styrene	< 5	5	1	ug/Kg	21-Dec-16

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-03A

Client Sample ID B - 2 (8 - 10')

Volatile Organics by GC/MS SW8260B

Analyst: SS

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
tert-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Tetrachloroethene	< 5	5	1	ug/Kg	21-Dec-16
Toluene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,3-Dichloropropene	< 10	10	1	ug/Kg	21-Dec-16
Trichloroethene	< 5	5	1	ug/Kg	21-Dec-16
Trichlorofluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Vinyl chloride	< 2	2	1	ug/Kg	21-Dec-16

Surrogate Recoveries

Analyte	Recovery	Control Limits
1,2-Dichloroethane-d4	62%	61—145
4-Bromofluorobenzene	102%	46—164
Dibromofluoromethane	73%	48—160
Toluene-d8	143%	54—163

For Surrogates: 0 = Dil. Out

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-05A
Analyst: SS

Client Sample ID B - 3 (7.5 - 10')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,1-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromo-3-chloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromoethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,3,5-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,4-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
2,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
2-Butanone	< 10	10	1	ug/Kg	21-Dec-16
2-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
2-Hexanone	< 10	10	1	ug/Kg	21-Dec-16
4-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Isopropyltoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Methyl-2-pentanone	< 10	10	1	ug/Kg	21-Dec-16
Acetone	< 10	10	1	ug/Kg	21-Dec-16
Benzene	< 5	5	1	ug/Kg	21-Dec-16

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-05A
Analyst: SS

Client Sample ID B - 3 (7.5 - 10')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
Bromobenzene	< 5	5	1	ug/Kg	21-Dec-16
Bromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromodichloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromoform	< 5	5	1	ug/Kg	21-Dec-16
Bromomethane	< 5	5	1	ug/Kg	21-Dec-16
Carbon disulfide	< 5	5	1	ug/Kg	21-Dec-16
Carbon tetrachloride	< 5	5	1	ug/Kg	21-Dec-16
Chlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
Chloroethane	< 5	5	1	ug/Kg	21-Dec-16
Chloroform	< 5	5	1	ug/Kg	21-Dec-16
Chloromethane	< 5	5	1	ug/Kg	21-Dec-16
cis-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
cis-1,3-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
Dibromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Dibromomethane	< 5	5	1	ug/Kg	21-Dec-16
Dichlorodifluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Ethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Hexachlorobutadiene	< 5	5	1	ug/Kg	21-Dec-16
Iodomethane	< 5	5	1	ug/Kg	21-Dec-16
Isopropylbenzene	< 5	5	1	ug/Kg	21-Dec-16
m,p-Xylenes	< 10	10	1	ug/Kg	21-Dec-16
Methyl tert-butyl ether	< 5	5	1	ug/Kg	21-Dec-16
Methylene chloride	< 5	5	1	ug/Kg	21-Dec-16
n-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
n-Propylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Naphthalene	< 15	15	1	ug/Kg	21-Dec-16
o-Xylene	< 5	5	1	ug/Kg	21-Dec-16
sec-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Styrene	< 5	5	1	ug/Kg	21-Dec-16

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-05A
Analyst: SS

Client Sample ID B - 3 (7.5 - 10')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
tert-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Tetrachloroethene	< 5	5	1	ug/Kg	21-Dec-16
Toluene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,3-Dichloropropene	< 10	10	1	ug/Kg	21-Dec-16
Trichloroethene	< 5	5	1	ug/Kg	21-Dec-16
Trichlorofluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Vinyl chloride	< 2	2	1	ug/Kg	21-Dec-16

Surrogate Recoveries

Analyte	Recovery	Control Limits
1,2-Dichloroethane-d4	88%	61—145
4-Bromofluorobenzene	105%	46—164
Dibromofluoromethane	83%	48—160
Toluene-d8	138%	54—163

For Surrogates: 0 = Dil. Out

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-07A
Analyst: SS

Client Sample ID B - 4 (12.5 - 15')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,1-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromo-3-chloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromoethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,3,5-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,4-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
2,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
2-Butanone	< 10	10	1	ug/Kg	21-Dec-16
2-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
2-Hexanone	< 10	10	1	ug/Kg	21-Dec-16
4-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Isopropyltoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Methyl-2-pentanone	< 10	10	1	ug/Kg	21-Dec-16
Acetone	< 10	10	1	ug/Kg	21-Dec-16
Benzene	< 5	5	1	ug/Kg	21-Dec-16

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-07A

Client Sample ID B - 4 (12.5 - 15')

Volatile Organics by GC/MS SW8260B

Analyst: SS

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
Bromobenzene	< 5	5	1	ug/Kg	21-Dec-16
Bromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromodichloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromoform	< 5	5	1	ug/Kg	21-Dec-16
Bromomethane	< 5	5	1	ug/Kg	21-Dec-16
Carbon disulfide	< 5	5	1	ug/Kg	21-Dec-16
Carbon tetrachloride	< 5	5	1	ug/Kg	21-Dec-16
Chlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
Chloroethane	< 5	5	1	ug/Kg	21-Dec-16
Chloroform	< 5	5	1	ug/Kg	21-Dec-16
Chloromethane	< 5	5	1	ug/Kg	21-Dec-16
cis-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
cis-1,3-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
Dibromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Dibromomethane	< 5	5	1	ug/Kg	21-Dec-16
Dichlorodifluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Ethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Hexachlorobutadiene	< 5	5	1	ug/Kg	21-Dec-16
Iodomethane	< 5	5	1	ug/Kg	21-Dec-16
Isopropylbenzene	< 5	5	1	ug/Kg	21-Dec-16
m,p-Xylenes	< 10	10	1	ug/Kg	21-Dec-16
Methyl tert-butyl ether	< 5	5	1	ug/Kg	21-Dec-16
Methylene chloride	< 5	5	1	ug/Kg	21-Dec-16
n-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
n-Propylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Naphthalene	< 15	15	1	ug/Kg	21-Dec-16
o-Xylene	< 5	5	1	ug/Kg	21-Dec-16
sec-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Styrene	< 5	5	1	ug/Kg	21-Dec-16

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-07A

Client Sample ID B - 4 (12.5 - 15')

Volatile Organics by GC/MS SW8260B

Analyst: SS

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
tert-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Tetrachloroethene	< 5	5	1	ug/Kg	21-Dec-16
Toluene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,3-Dichloropropene	< 10	10	1	ug/Kg	21-Dec-16
Trichloroethene	< 5	5	1	ug/Kg	21-Dec-16
Trichlorofluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Vinyl chloride	< 2	2	1	ug/Kg	21-Dec-16

Surrogate Recoveries

Analyte	Recovery	Control Limits
1,2-Dichloroethane-d4	95%	61—145
4-Bromofluorobenzene	107%	46—164
Dibromofluoromethane	92%	48—160
Toluene-d8	143%	54—163

For Surrogates: 0 = Dil. Out

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-08A
Analyst: SS

Client Sample ID B - 5 (5 - 7.5')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,1-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromo-3-chloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromoethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,3,5-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,4-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
2,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
2-Butanone	< 10	10	1	ug/Kg	21-Dec-16
2-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
2-Hexanone	< 10	10	1	ug/Kg	21-Dec-16
4-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Isopropyltoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Methyl-2-pentanone	< 10	10	1	ug/Kg	21-Dec-16
Acetone	< 10	10	1	ug/Kg	21-Dec-16
Benzene	< 5	5	1	ug/Kg	21-Dec-16

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-08A
Analyst: SS

Client Sample ID B - 5 (5 - 7.5')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
Bromobenzene	< 5	5	1	ug/Kg	21-Dec-16
Bromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromodichloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromoform	< 5	5	1	ug/Kg	21-Dec-16
Bromomethane	< 5	5	1	ug/Kg	21-Dec-16
Carbon disulfide	< 5	5	1	ug/Kg	21-Dec-16
Carbon tetrachloride	< 5	5	1	ug/Kg	21-Dec-16
Chlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
Chloroethane	< 5	5	1	ug/Kg	21-Dec-16
Chloroform	< 5	5	1	ug/Kg	21-Dec-16
Chloromethane	< 5	5	1	ug/Kg	21-Dec-16
cis-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
cis-1,3-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
Dibromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Dibromomethane	< 5	5	1	ug/Kg	21-Dec-16
Dichlorodifluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Ethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Hexachlorobutadiene	< 5	5	1	ug/Kg	21-Dec-16
Iodomethane	< 5	5	1	ug/Kg	21-Dec-16
Isopropylbenzene	< 5	5	1	ug/Kg	21-Dec-16
m,p-Xylenes	< 10	10	1	ug/Kg	21-Dec-16
Methyl tert-butyl ether	< 5	5	1	ug/Kg	21-Dec-16
Methylene chloride	< 5	5	1	ug/Kg	21-Dec-16
n-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
n-Propylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Naphthalene	< 15	15	1	ug/Kg	21-Dec-16
o-Xylene	< 5	5	1	ug/Kg	21-Dec-16
sec-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Styrene	< 5	5	1	ug/Kg	21-Dec-16

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-08A

Client Sample ID B - 5 (5 - 7.5')

Volatile Organics by GC/MS SW8260B

Analyst: SS

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
tert-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Tetrachloroethene	< 5	5	1	ug/Kg	21-Dec-16
Toluene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,3-Dichloropropene	< 10	10	1	ug/Kg	21-Dec-16
Trichloroethene	< 5	5	1	ug/Kg	21-Dec-16
Trichlorofluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Vinyl chloride	< 2	2	1	ug/Kg	21-Dec-16

Surrogate Recoveries

Analyte	Recovery	Control Limits
1,2-Dichloroethane-d4	85%	61—145
4-Bromofluorobenzene	101%	46—164
Dibromofluoromethane	80%	48—160
Toluene-d8	122%	54—163

For Surrogates: 0 = Dil. Out

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-10A
Analyst: SS

Client Sample ID B - 6 (12.5 - 15')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,1-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2,2-Tetrachloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1,2-Trichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
1,1-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,3-Trichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2,4-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromo-3-chloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dibromoethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloroethane	< 5	5	1	ug/Kg	21-Dec-16
1,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,3,5-Trimethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
1,3-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
1,4-Dichlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
2,2-Dichloropropane	< 5	5	1	ug/Kg	21-Dec-16
2-Butanone	< 10	10	1	ug/Kg	21-Dec-16
2-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
2-Hexanone	< 10	10	1	ug/Kg	21-Dec-16
4-Chlorotoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Isopropyltoluene	< 5	5	1	ug/Kg	21-Dec-16
4-Methyl-2-pentanone	< 10	10	1	ug/Kg	21-Dec-16
Acetone	< 10	10	1	ug/Kg	21-Dec-16
Benzene	< 5	5	1	ug/Kg	21-Dec-16

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-10A
Analyst: SS

Client Sample ID B - 6 (12.5 - 15')

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
Bromobenzene	< 5	5	1	ug/Kg	21-Dec-16
Bromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromodichloromethane	< 5	5	1	ug/Kg	21-Dec-16
Bromoform	< 5	5	1	ug/Kg	21-Dec-16
Bromomethane	< 5	5	1	ug/Kg	21-Dec-16
Carbon disulfide	< 5	5	1	ug/Kg	21-Dec-16
Carbon tetrachloride	< 5	5	1	ug/Kg	21-Dec-16
Chlorobenzene	< 5	5	1	ug/Kg	21-Dec-16
Chloroethane	< 5	5	1	ug/Kg	21-Dec-16
Chloroform	< 5	5	1	ug/Kg	21-Dec-16
Chloromethane	< 5	5	1	ug/Kg	21-Dec-16
cis-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
cis-1,3-Dichloropropene	< 5	5	1	ug/Kg	21-Dec-16
Dibromochloromethane	< 5	5	1	ug/Kg	21-Dec-16
Dibromomethane	< 5	5	1	ug/Kg	21-Dec-16
Dichlorodifluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Ethylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Hexachlorobutadiene	< 5	5	1	ug/Kg	21-Dec-16
Iodomethane	< 5	5	1	ug/Kg	21-Dec-16
Isopropylbenzene	< 5	5	1	ug/Kg	21-Dec-16
m,p-Xylenes	< 10	10	1	ug/Kg	21-Dec-16
Methyl tert-butyl ether	< 5	5	1	ug/Kg	21-Dec-16
Methylene chloride	< 5	5	1	ug/Kg	21-Dec-16
n-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
n-Propylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Naphthalene	< 15	15	1	ug/Kg	21-Dec-16
o-Xylene	< 5	5	1	ug/Kg	21-Dec-16
sec-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Styrene	< 5	5	1	ug/Kg	21-Dec-16

Approved by: 

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

Client: Drash Consultants, LLC
Work Order: 1612077
Project Name: 116G1164 Sterling - Commerce LSI

Date: 22-Dec-16
Date Received: 17-Dec-16
Collection Date: 16-Dec-16
Preparation Date: 21-Dec-16
Matrix: SOIL
Lab ID: 1612077-10A

Client Sample ID B - 6 (12.5 - 15')

Analyst: SS

Volatile Organics by GC/MS SW8260B

Analyte	Result	Reporting Limit	DF	Units	Date Analyzed
tert-Butylbenzene	< 5	5	1	ug/Kg	21-Dec-16
Tetrachloroethene	< 5	5	1	ug/Kg	21-Dec-16
Toluene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,2-Dichloroethene	< 5	5	1	ug/Kg	21-Dec-16
trans-1,3-Dichloropropene	< 10	10	1	ug/Kg	21-Dec-16
Trichloroethene	< 5	5	1	ug/Kg	21-Dec-16
Trichlorofluoromethane	< 5	5	1	ug/Kg	21-Dec-16
Vinyl chloride	< 2	2	1	ug/Kg	21-Dec-16

Surrogate Recoveries

Analyte	Recovery	Control Limits
1,2-Dichloroethane-d4	92%	61—145
4-Bromofluorobenzene	102%	46—164
Dibromofluoromethane	88%	48—160
Toluene-d8	130%	54—163

For Surrogates: 0 = Dil. Out

Approved by:

Report of Laboratory Analysis

NELAP Certificate# San Antonio : T104704367-16-5

CLIENT: Drash Consultants, LLC
Work Order: 1612077 **Project:** 116G1164 Sterling - Commerce LSI

QC SUMMARY REPORT

Analyte	BLK	SPK value	%REC LCS	%REC LCSD	RPD %	RPD Limit	%REC MS	%REC MSD	RPD %	RPD Limit	Low - High Limit	Parent	DUP	RPD %	RPD Limit
Batch ID: BTXS_GCMS-12/21/2016	**TestName:** BTEX														
Run ID: BTEX1_161221A	**Test Code:** SW8260B			**Units:** mg/Kg				**Analysis Date:** 12/21/2016				**Prep Date:** 12/21/2016			
Benzene	<0.005	0.05	102.7%	95.1%	8.000	30.0					57 - 142				
Toluene	<0.005	0.05	103.0%	109.7%	6.000	30.0					53 - 145				
Ethylbenzene	<0.005	0.05	108.7%	100.2%	8.000	30.0					66 - 142				
Xylenes, Total	<0.015	0.15	104.1%	96.8%	7.000	30.0					55 - 140				
Methyl tert-butyl ether	<0.005	0.05	102.5%	100.2%	2.000	30.0					54 - 170				
Batch ID: HG_R_S-12/22/2016	**TestName:** MERCURY, TOTAL														
Run ID: HG_161221A	**Test Code:** SW7471A			**Units:** mg/Kg				**Analysis Date:** 12/21/2016				**Prep Date:** 12/21/2016 8:30:00			
Mercury	<0.04	0.5	98.0%	96.0%	2.000	25.0	96.0%	94.0%	2.000	25.0	77 - 120				
Batch ID: PMOIST-12/19/2016	**TestName:** PERCENT MOISTURE														
Run ID: BAL1_161219A	**Test Code:** D2216			**Units:** wt%				**Analysis Date:** 12/20/2016 11:00:00 AM				**Prep Date:** 12/19/2016 5:45:00			
Percent Moisture												15.9	15.7	1.000	15.0
Batch ID: RCRA7_S-12/22/2016	**TestName:** METALS-RCRA, Total														
Run ID: ICP_161222D	**Test Code:** SW6010B			**Units:** mg/Kg				**Analysis Date:** 12/22/2016 1:00:00 PM				**Prep Date:** 12/21/2016 9:00:00			
Arsenic	<2.5	50	100.0%	99.8%	0.000	30.0	75.6%	73.2%	3.000	30.0	80 - 120				
Barium	<1	50	98.2%	96.8%	1.000	30.0	77.6%	84.6%	3.000	30.0	80 - 120				
Cadmium	<0.5	50	103.0%	103.8%	1.000	30.0	81.0%	83.0%	2.000	30.0	80 - 120				
Chromium	<0.5	50	98.4%	100.4%	2.000	30.0	76.6%	79.4%	2.000	30.0	80 - 120				
Lead	<1.5	50	101.4%	100.0%	1.000	30.0	77.6%	80.2%	2.000	30.0	80 - 120				
Selenium	<2	50	103.8%	100.6%	3.000	30.0	84.8%	86.8%	2.000	30.0	80 - 120				
Silver	<0.78	50	96.0%	96.4%	0.000	30.0	78.8%	79.2%	1.000	30.0	80 - 120				

Approved by:

Laboratory QC Report

CLIENT: Drash Consultants, LLC
Work Order: 1612077 **Project:** 116G1164 Sterling - Commerce LSI

QC SUMMARY REPORT

Analyte	BLK	SPK value	%REC LCS	%REC LCSD	RPD %	RPD Limit	%REC MS	%REC MSD	RPD %	RPD Limit	Low - High Limit	Parent	DUP	RPD %	RPD Limit
Batch ID: TPH1005_S-12/21/2016	**TestName:** TOTAL PETROLEUM HYDROCARBONS														
Run ID: TPH_161219B	**Test Code:** TX1005				**Units:** mg/Kg				**Analysis Date:** 12/19/2016			**Prep Date:** 12/19/2016			
Hydrocarbons, C6-C12	<50	500	99.2%	81.2%	20.000	30.0	86.2%	80.2%	7.000	30.0	75 - 125				
Hydrocarbons, >C12-C28	<50	500	104.8%	116.6%	11.000	30.0	96.4%	118.6%	21.000	30.0	75 - 125				
Hydrocarbons, >C28-C35	<50														
Hydrocarbons, C6-C35	<50	1000	102.0%	98.9%	3.000	30.0	90.3%	99.4%	10.000	30.0	75 - 125				

Approved by: bsreddy

Laboratory QC Report

CLIENT: Drash Consultants, LLC
Work Order: 1612077 **Project:** 116G1164 Sterling - Commerce LSI

QC SUMMARY REPORT

Batch ID: VOC1_161221A **TestName:** Volatile Organics by GC/MS
Run ID: VOC1_161221A **Test Code:** SW8260B **Units:** ug/Kg **Analysis Date:** 12/21/2016 3:46:00 PM **Prep Date:** 12/21/2016 3:46:00

Analyte	BLK	SPK value	%REC LCS	%REC LCSD	RPD %	RPD Limit	%REC MS	%REC MSD	RPD %	RPD Limit	Low - High Limit	Parent	DUP	RPD %	RPD Limit
1,1,1,2-Tetrachloroethane	<5														
1,1,1-Trichloroethane	<5	50	99.6%								42 - 177				
1,1,2,2-Tetrachloroethane	<5														
1,1,2-Trichloroethane	<5														
1,1-Dichloroethane	<5														
1,1-Dichloroethene	<5	50	93.7%								59 - 143				
1,1-Dichloropropene	<5														
1,2,3-Trichlorobenzene	<5														
1,2,3-Trichloropropane	<5														
1,2,4-Trichlorobenzene	<5														
1,2,4-Trimethylbenzene	<5														
1,2-Dibromo-3-chloropropane	<5														
1,2-Dibromoethane	<5														
1,2-Dichlorobenzene	<5														
1,2-Dichloroethane	<5														
1,2-Dichloropropane	<5														
1,3,5-Trimethylbenzene	<5														
1,3-Dichlorobenzene	<5														
1,3-Dichloropropane	<5														
1,4-Dichlorobenzene	<5														
2,2-Dichloropropane	<5														
2-Butanone	<10														
2-Chlorotoluene	<5														
2-Hexanone	<10														
4-Chlorotoluene	<5														
4-Isopropyltoluene	<5														
4-Methyl-2-pentanone	<10														
Acetone	<10														
Benzene	<5	50	95.1%								57 - 142				

Approved by:

CLIENT: Drash Consultants, LLC
Work Order: 1612077 **Project:** 116G1164 Sterling - Commerce LSI

QC SUMMARY REPORT

Analyte	BLK	SPK value	%REC LCS	%REC LCSD	RPD %	RPD Limit	%REC MS	%REC MSD	RPD %	RPD Limit	Low - High Limit	Parent	DUP	RPD %	RPD Limit
Bromobenzene	<5														
Bromochloromethane	<5														
Bromodichloromethane	<5														
Bromoform	<5														
Bromomethane	<5														
Carbon disulfide	<5														
Carbon tetrachloride	<5														
Chlorobenzene	<5	50	93.6%								61 - 134				
Chloroethane	<5														
Chloroform	<5														
Chloromethane	<5														
cis-1,2-Dichloroethene	<5														
cis-1,3-Dichloropropene	<5														
Dibromochloromethane	<5														
Dibromomethane	<5														
Dichlorodifluoromethane	<5														
Ethylbenzene	<5														
Hexachlorobutadiene	<5														
Iodomethane	<5														
Isopropylbenzene	<5														
m,p-Xylenes	<10														
Methyl tert-butyl ether	<5	50	91.1%								54 - 170				
Methylene chloride	<5														
n-Butylbenzene	<5														
n-Propylbenzene	<5														
Naphthalene	<15														
o-Xylene	<5														
sec-Butylbenzene	<5														
Styrene	<5														
tert-Butylbenzene	<5														
Tetrachloroethene	<5														
Toluene	<5	50	109.7%								53 - 145				
trans-1,2-Dichloroethene	<5														

Approved by:

Laboratory QC Report

CLIENT: Drash Consultants, LLC
Work Order: 1612077 **Project:** 116G1164 Sterling - Commerce LSI

QC SUMMARY REPORT

Analyte	BLK	SPK value	%REC LCS	%REC LCSD	RPD %	RPD Limit	%REC MS	%REC MSD	RPD %	RPD Limit	Low - High Limit	Parent	DUP	RPD %	RPD Limit
trans-1,3-Dichloropropene	<10														
Trichloroethene	<5	50	96.2%								61 - 133				
Trichlorofluoromethane	<5														
Vinyl chloride	<2														

Approved by:

ALAMO ANALYTICAL LABORATORIES LTD.

CHAIN OF CUSTODY RECORD

COC#: 023558

Main Office: 10526 Gulfdale
San Antonio, Texas 78216
(210) 340-8121 • Fax (210) 340-8123

Branch: 2500 Montana Avenue
El Paso, Texas 79903
(915) 599-2182

www.alamoanalytical.com
admin@alamoanalytical.com

MUST BE COMPLETED BY CLIENT

Alamo's Client: Drash Consultants, LLC	Client's P.O. #: 116E1164
Project Manager: Paul Beckett	Phone #: 210-340-5004
Address: 1045 Central Pkwy N., Ste. 103, San Antonio, TX	Fax #:
Project Number: 116E1164	Project Name: Sterling - Commerce 151
Project Location: San Antonio, TX	Sampler Signature:

Turnaround time: Standard(7)☐ (in working days)

RUSH: 1☐ 2☐ 3-5☒ Days (additional charges)

TRRP 13 Report: Yes☐ No☐ (additional charges)

Analysis for Permit Compliance: Yes☐ No☒

DMR Form Required: Yes☐ No☐

LAB ID# (Do not use)	Sampling Date	Sampling Time	Composite	Grab	Matrix	FIELD ID#	FIELD DESCRIPTION	No. of Containers	ANALYSIS: TPH	VOC (5035)	BCRA 8	BTEX + MTBE				REMARKS (Preservation, Size/Amount, Etc.)
16120701	12/16	1036		X	SO	B-1(6-8')		5	X	X	X					Rpt MTBE w/ VOC
-02		1120		X	SO	B-2(4-6')		5	X		X	X				
-03		1148		X	SO	B-2(8-10')		5	X	X	X					Rpt MTBE
-04		1431		X	SO	B-3(2.5-5')		5	X		X	X				
-05		1436		X	SO	B-3(7.5-10')		5	X	X	X					Rpt MTBE
-06		1500		X	SO	B-4(5-7.5')		5	X		X	X				
-07		1506		X	SO	B-4(12.5-15')		5	X	X	X					Rpt MTBE
-08		1523		X	SO	B-5(5-7.5')		5	X	X	X					Rpt MTBE
-09		1535		X	SO	B-5(12.5-15')		5	X		X	X				
-10		1603		X	SO	B-6(12.5-15')		5	X	X	X					Rpt MTBE

Relinquished by: (Signature / Print Name)	Date	Time	Received by: (Signature)
	12/17/16	1000	
Relinquished by: (Signature / Print Name)	Date	Time	Received by: (Signature)
Relinquished by: (Signature / Print Name)	Date	Time	Received by: (Signature)
Relinquished by: (Signature / Print Name)	Date	Time	Received by: (Signature)
	12/17	1000	

Headspace			If Yes, Amt. N/A
Properly Sealed	✓		If No, Explain 0
Chilled ≤4° C	✓		If No, Temp. 3.1 C

Comments:

ALAMO ANALYTICAL LABORATORIES, LTD.

10526 Gulfdale
San Antonio, TX – 78216;
Ph. (210) 340-8121; Fax: (210) 340-8123
www.alamoanalytical.com

2500 Montana Avenue
El Paso, TX – 79903
Ph. (915) 599-2182

Sample Log-In Checklist

DATE: 12/12/2016 **TIME:** 10:10 **INITIALS:** [illegible]

CLIENT: Basin **PROJECT: W.O#** 1612077

1. Is a Chain of Custody present? (Yes) No
2. Is a Chain of Custody properly completed? (Yes) No
3. Are custody seals present? Yes (No)
   If yes, are they intact? Yes No
   Are they on: Sample ____ or on Shipping Container ____
4. Are all samples tagged or labeled? (Yes) No
   If yes, do the labels match the Chain of Custody? (Yes) No
5. Do all shipping documents agree (i.e., number of coolers arrived vs. on tickets)
   If not, describe below. Yes No (N/A)
6. Are samples preserved properly? *If not*, describe below. (Yes) No
7. Are all samples within holding times on arrival? (Yes) No
   If not, describe below.
8. Condition of shipping container: Intact ✓ or ____
9. Condition of samples: Intact ✓ or ____
10. Temperature of samples: Temp. (^{0}C): 3.1 Corrected Temp. (^{0}C): ____ Thermometer ID: **DT1 or L2**
11. pH strip lot#: — Samples out of pH range: —
12. Delivery agent: Client ✓ UPS ____ Fed-Ex ____ Lone Star ____ Alamo P/U ____ Other ____
13. Sample disposal: Return to client ____ Alamo Analytical Disposal ✓

Comments: (Reference checklist item number from above, or for comments on resolution below):

[illegible]

Record of contacting client for resolution of sample discrepancies (first and retry contact)
Contacted How?

Name: ____ Phone ___ Fax ___ Date: ___/___/___ Time: ____
Name: ____ Phone ___ Fax ___ Date: ___/___/___ Time: ____